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Adaptive Optics Center of Excellence (AOCOE)

Adaptive Optics Center of Excellence (AOCOE) Publications

2010-01-12

**Segmented Mirror Telescope Laboratory  
Ribbon-cutting Ceremony**

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## Segmented Mirror Space Telescope

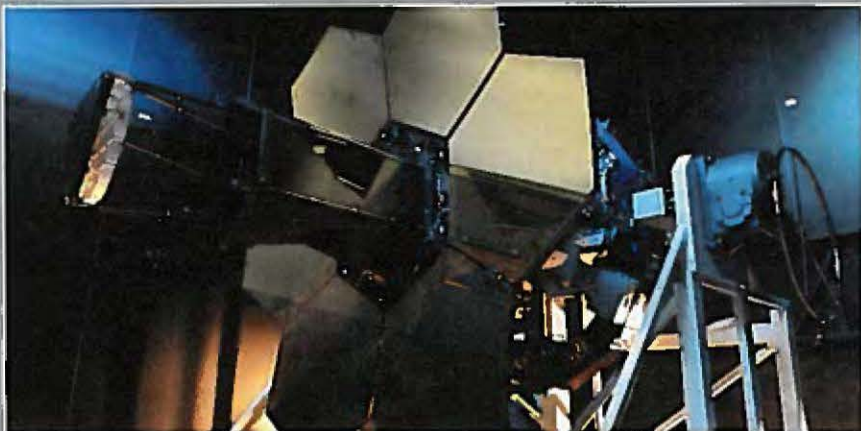


The Segmented Mirror Space Telescope (SMT) was developed by the National Reconnaissance Office (NRO) as a test bed for future imaging telescope technologies. The NRO, which designs, builds and operates the nation's reconnaissance satellites has completed development and testing of the telescope and has decided to transfer the test bed to the Naval Postgraduate School (NPS) to support academic research. NPS has created a new lab facility to house the

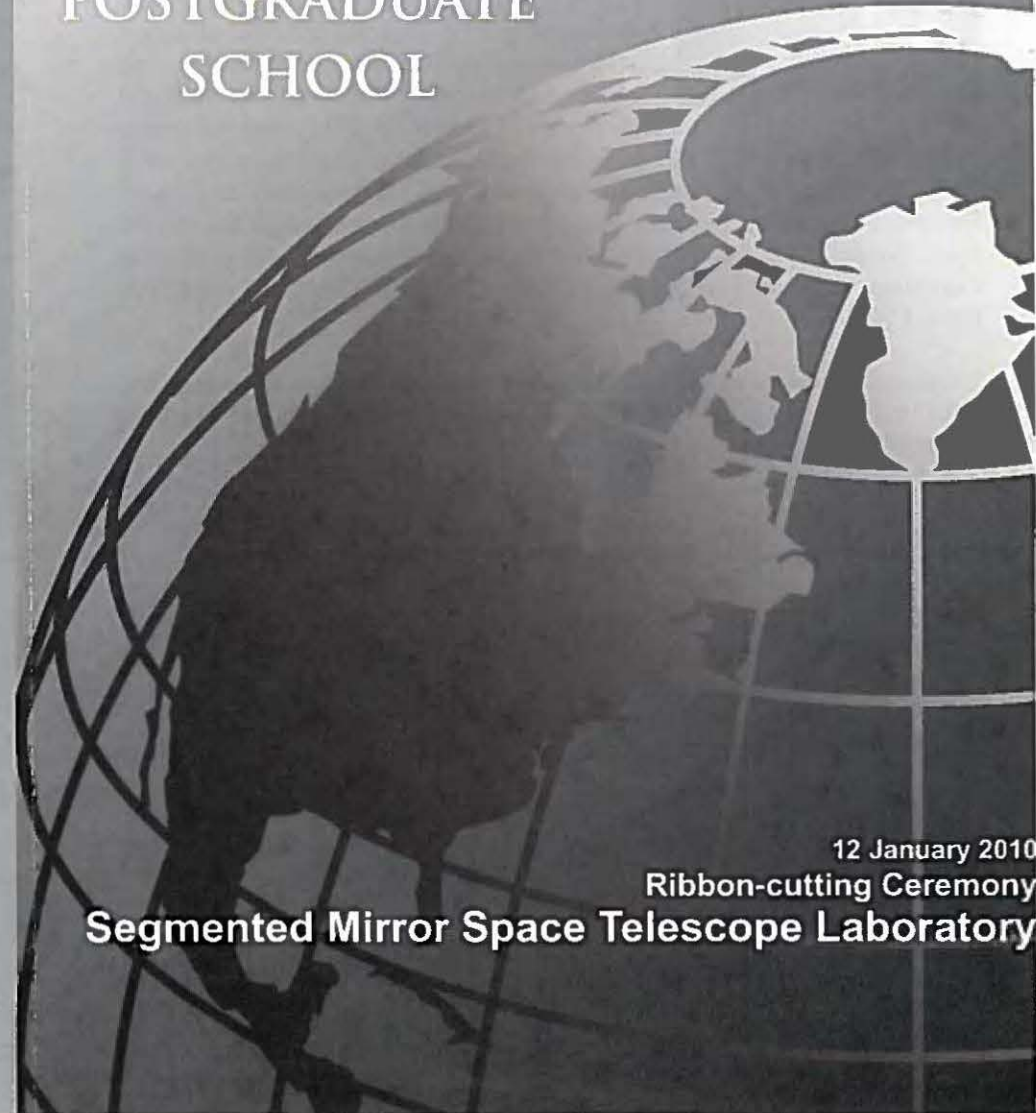
telescope in Halligan Hall within the Graduate School of Engineering and Applied Sciences.

The new asset will be used for instruction and research in the NPS Space Systems Engineering and Space Systems Operations curricula to provide students with experience in the design, analysis, and testing of space systems and to offer facilities for experimental research. The SRDC also plans to conduct collaborative research using the SMT with national laboratories, industry, and other universities.

The SMT will increase NPS research capabilities in target acquisition, tracking, and pointing of flexible spacecraft with optical payloads; adaptive optics for correction of optical aberrations due to mirror surface errors and turbulence; active vibration and jitter control; and space-system design.



## NAVAL POSTGRADUATE SCHOOL



12 January 2010

Ribbon-cutting Ceremony

Segmented Mirror Space Telescope Laboratory

## Major General Ellen M. Pawlikowski



Maj. Gen. Ellen M. Pawlikowski is the Deputy Director, National Reconnaissance Office, Chantilly, Va. Also, as the Commander, Air Force Space Command Element, she manages all Air Force personnel and resources assigned to the NRO and serves as the senior adviser to the NRO Director on all military matters.

General Pawlikowski entered the Air Force in 1978 through the ROTC program at New Jersey Institute of Technology. She attended the University of California at Berkeley, and received a Doctorate of Philosophy in chemical engineering in December 1981, entering active duty at McClellan AFB, Calif., in April 1982. The general has served in a variety of technical management, leadership and staff positions, to include Director of the Airborne Laser Program and Director of the MILSATCOM Joint Program Office. Prior to her current assignment, she was Vice Commander, Space and Missile Systems Center, Los Angeles Air Force Base, Calif.

General Pawlikowski is selected for reassignment as Commander, Air Force Research Laboratory, Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio.

## The National Reconnaissance Office

The NRO designs, builds and operates the nation's reconnaissance satellites. NRO products, provided to an expanding list of customers like the Central Intelligence Agency (CIA) and the Department of Defense (DoD), can warn of potential trouble spots around the world, help plan military operations, and monitor the environment.

As part of the 16-member Intelligence Community, the NRO plays a primary role in achieving information superiority for the U. S. Government and Armed Forces.

A DoD agency, the NRO is staffed by DoD and CIA personnel. It is funded through the National Reconnaissance Program, part of the National Foreign Intelligence Program

## Ribbon Cutting Ceremony

10:00 – 11:00

*Segmented Mirror Space Telescope Presentation  
Professor Brij N. Agrawal, Distinguished Professor,  
Department of Mechanical and Astronautical  
Engineering*

*Remarks - Lt Col Andrew Adams,  
National Reconnaissance Office*

*Remarks - Professor Knox T. Millsaps, Chairman,  
Mechanical and Astronautical Engineering*

*Remarks - Dr. Karl van Bibber,  
Vice President and Dean of Research*

*Remarks - Dr. Leonard A. Ferrari,  
Executive Vice President and Provost*

*Keynote Remarks - Maj. Gen. Ellen M. Pawlikowski,  
USAF, Deputy Director,  
National Reconnaissance Office*

*Walk from Mechanical Engineering Auditorium  
to Halligan Hall  
Please follow directions by guides*

*Ribbon cutting by Maj. Gen. Ellen M. Pawlikowski,  
Dr. Leonard A. Ferrari, Dean Karl van Bibber,  
and Professor Brij N. Agrawal*

11:00 – 12:00

*Telescope viewing and refreshments*

12:00 – 1:15

*Lunch - El Prado Room, Herrmann Hall*

1:15 – 2:00

*Lab Tour - Halligan Hall, Room 124*

2:00 – 3:30

*SMT Future Use and Collaboration  
Spacecraft Research and Design Center Conference Room,  
Halligan Hall, Room 132*